

**RATIONAL FOR MINERAL ESTATE
CONVEYANCE/RETENTION
WITH SURFACE ESTATE
Supplement to the Mineral Potential Report
9/02/2004**

A detailed mineral potential report for the BLM parcels involved in the Emerald Mountain Land Exchange proposal was completed in January of 2004. An addendum to this report to include eleven additional parcels was completed in August of 2004. In addition to a mineral potential report, a minerals management efficiency and accessibility assessment of BLM mineral estate was also completed in August of 2004. The following table is a result of that assessment with recommendations for retention or conveyance of the mineral estate.

It is BLM's desire to minimize split estate where split estate may decrease management efficiency. In the case where a parcel is completely or nearly completely surrounded by federal mineral estate it was recommended to retain the minerals irregardless of the mineral potential. The rational is that the BLM does not want to create holes in contiguous mineral estate which would complicate future management of minerals by restricting access, complicating potential royalty issues and/or causing drainage situations. In the case where conveying mineral estate would have left an isolated federal mineral parcel it was also recommended to retain the mineral estate as to prevent the isolation of this federal mineral parcel from possible future access for development. Conveyance of this type would also decrease management efficiency.

There are several cases where federal mineral estate could be conveyed with the surface estate because it is on the edge of a larger block of federal minerals, and conveyance would not have isolated any federal minerals. However, in the cases where the mineral potential was moderate or high and already leased it was decided to retain the minerals to facilitate more efficient management of a mineral resource that is more likely to be developed. This is especially the case in parcels 80, 81 and 84 which are scheduled to be mined in the near future. Conveyance of mineral estate was recommended in cases where parcels are completely surrounded by private mineral estate and private surface regardless of potential ranking or lease encumbrances.

There are 129 BLM parcels totaling 15,621.04 acres (all with federal minerals) involved with this land exchange. All together there are sixty eight parcels (8092.88 acres) where the federal mineral estate is recommended for conveyance and sixty one parcels (7528.16 acres) where retention of the federal mineral estate is recommended. There are seventeen parcels (1055.59 acres) recommended for conveyance that have active oil and gas leases and one with a coal lease (41.40 acres), but they all have a low potential rating for these minerals. The minerals on these parcels can be conveyed with conditions attached to the title that will honor the terms and conditions of the lease. The BLM as the lessor will also have appropriate protection. Sixteen parcels with a moderate mineral potential rating (1819.51 acres) are recommended for conveyance and none of the parcels are leased for the particular commodity that is rated as moderate. No high potential minerals were recommended for conveyance. Thirty-four parcels (6,118.6 acres) that have oil and gas leases are recommended for retention of minerals. Four parcels (260.00 acres) with coal leases are recommended for retention of minerals.

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
T12N R88W	Sparks	Sparks	79.88	O&G	low Moderate	O&G coal	3 sides federal minerals, appended to larger block of federal minerals, surrounded by private surface; no road access, convey	001
T12N R88W	Marsh	Marsh	147.50	O&G	low Moderate	O&G Coal, gold, aggregate	2/3 sounded by federal minerals, appended to larger block; surrounded by private surface; no road access; convey	002
T12N R88W	Stull Ranches	Stull Ranches	40.00	O&G	low Moderate	O&G coal	Surrounded by federal minerals, appended to larger block of fed minerals, surrounded by private surface, has corner contact with 80 BLM parcel; road access; retain	003
T12N R88W	Stull Ranches	Stull Ranches	17.25	O&G	low moderate	O&G coal	3 sides federal minerals, appended to larger block, surrounded by private and state surface; no road access, 2 track ½ to west; retain	004
T12N R88W	Marsh	Marsh	40.00		Moderate	coal	Surrounded by federal	005

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							minerals, contiguous with other BLM surface estate; no road access; retain	
T12N R88W	Sheep Mtn Partnership	Sheep Mtn Partnership	120.00	O&G	low moderate	O&G coal	Surrounded by federal minerals, contiguous with other BLM surface estate; two track access; retain	006
T12N R87W	Sheep Mtn Partnership	Sheep Mtn Partnership	19.47	O&G	low moderate	O&G coal	Surrounded by federal minerals and private surface; no road access; retain	008
T12N R87W	Sheep Mtn Partnership	Sheep Mtn Partnership	10.98	O&G	low moderate	O&G coal	4/5 surrounded by federal minerals and completely by private surface; no road access; convey	009
T10N R86W	Fetcher	Fetcher	120.00		low	All	Surrounded by federal minerals and private surface; no road access, private road ½ mile to SW; retain	011
T10N R86W	Hill	Hill	40.00		low	All	3/4 surrounded by federal minerals and by private surface; poor access thru forest on west side; convey	012

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
T10N R85W	Woods	Button	48.09		low	All	1/2 surrounded by federal minerals and completely by private surface; no road access; convey	013
T10N R85W	State Land Board	Sellers	24.09		moderate	Gold, aggregate	Surrounded by private minerals and private surface; sliver; convey	014
T10N R85W	Ross	Ross	4.87		low	All	Surrounded by private minerals and private surface; sliver; convey	015
T08-09N R88-89W	Rancho Greco/Nottingham	Rancho Greco/Nottingham	875.02	O&G	low	All	4/5 surrounded by federal minerals and private surface; contiguous with FS lands on north end; road access; retain	016
T09N R88W	Nottingham	Nottingham	23.12	O&G	low	All	1/2 surrounded by federal minerals, 1/2 contiguous with FS surface, no road access; convey	017
T08-09N R88W	Nottingham	Nottingham	40.33	O&G	low	All	Surrounded by private minerals and private surface; no road access; convey	018
T09N R88W	Nottingham	Nottingham	40.00	O&G	low	All	Surrounded by private minerals and private surface; private road	019

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
							access; convey	
T09N R88W	Nottingham	Nottingham	47.90	O&G	low	All	Surrounded by federal minerals, north side contiguous with FS lands, fair access thru forest; road 1/8 mile to west, retain	020
T09 R86W	Wheatley/King/Allen	Wheatley	12.92		low	All	Surrounded by federal minerals and private surface, road access thru private, sliver parcel; retain	021
T09 R86W	Routt Investments	Ford Smith	1.93		low	All	Surrounded by 1/2 federal minerals and completely by private surface, no road access; convey	021a
T09 R86W	Dean & Laura Chew	Dean & Laura Chew	40.00		low	All	Surrounded by federal minerals, north side contiguous with FS lands, no road access, fair access thru forest; retain	022
T09 R86W	Routt Investments	Ford Smith	28.84		low	All	Surrounded 1/2 federal minerals and all private surface; no road access, sliver of land; convey	022a

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T09 R86W	Dean & Laura Chew	Dean & Laura Chew	44.77		low	All	Surrounded by federal minerals and private surface; no road access, retain	023
T08N R88-89W	Nottingham/Murphy	Nottingham/Murphy	388.30	O&G	low moderate	O&G aggregate	Surrounded by federal minerals and private surface, county road access; retain	024
T08N R88W	J. Spitzley	Elkhead Ranch	77.96	O&G	low	All	Surrounded by federal minerals and private surface; no road access; retain	025
T08N R88W	Nottingham/Murphy	Nottingham/Murphy	40.01	O&G	low	All	1/2 surrounded by federal minerals (coal only) and all private surface; no road access; convey	026
T08N R88W	Nottingham	Nottingham	48.24	O&G	low	All	1/2 surrounded by federal minerals and all private surface; no road access; convey	027
T08N R88W	Nottingham/Murphy	Nottingham/Murphy	74.45	O&G	low	All	1/2 surrounded by federal minerals and all private surface; road access across private land; convey	028
T08N R88W	Murphy	Murphy	40.00		low	All	3/4 surrounded by federal	029

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
							minerals (coal only) and all private surface; fair access due to road near by; convey	
T08N R88W	Cook	Nottingham	36.19	O&G	low	All	Surrounded by federal minerals and private surface, private road ¼ mile to south; retain	031
T08N R88W	Nottingham	Nottingham	39.08	O&G	low	All	Surrounded by federal minerals and private surface, county access ½ mile to the west of parcel; retain	032
T08N R88W	Nottingham	McWilliams/Nottingham	592.64	O&G	low	All	2/3 Surrounded by federal minerals and completely surrounded by mostly private and minor state surface, private road access; retain	033
T08N R86-87W	Mystic Hill Ranch	Meadows Realty	261.94		low	All	½ surrounded by federal minerals, and surrounded by private and state surface, no road access; convey	037
T08N R87W	Mystic Hill Ranch	Smith Ranchos [S1]	120.00		low	All	¾ surrounded by federal minerals and completely	038

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							surrounded by private surface, appended to small block of federal minerals, no road access; retain	
T08N R87W	Smith Rancho	Smith Rancho	40.00		low	All	¾ surrounded by federal minerals and completely surrounded by private surface, appended to small block of federal minerals, no road access; retain	039
T07-08N R87W	Smith Rancho	Smith Rancho	322.44	O&G	low	All	1/3 surrounded by private minerals, completely surrounded by private lands, private road access; retain	040
T08N R86W	Ellsworth	Chew	50.77		low	All	Completely surrounded by private minerals, completely surrounded by private lands, no road access; convey	040a
T08N R86W	Chew/Harvey	Chew	98.70		low	All	¾ surrounded by federal minerals and all by private surface, no road access; convey	041
T08N R86W	Poole/Nottingham/Mead	Poole/Nottingham/Mea	1070.78		low	All	1/2 surrounded by private	042

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	ows Realty	dows					minerals, completely surrounded by private lands, private road access; convey	
T08N R86W	Guthrie	Guthrie	11.58		low	All	1/2 surrounded by private minerals, completely surrounded by private lands, private road access; convey	043
T08N R86W	Poole	Poole	7.56		low	All	3/5 surrounded by private minerals and completely surrounded by private land, no road access; convey	044
T08N R86W	Meadows Realty	Meadows Realty	21.40		low	All	1/3 surrounded by private minerals, completely surrounded by private lands, no road access; convey	045
T08N R86W	Meadows Realty	Meadows Realty	39.84		low	All	Surrounded by private minerals and private surface, no road access; convey	046
T08N R85W	Chew	Chew	756.71		low	All	Surrounded by private surface and mostly private minerals, poor access, convey	047

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T08N R85W	Chew	Chew	8.06		low	All	4/5 surrounded by private minerals, completely surrounded by private lands, no road access; convey	048
T08N R85W	Komfala	Chew	8.65		low	All	1/2 surrounded by private minerals, completely surrounded by private lands, no road access; convey	049
T08N R85W	Souder et. Al. (Souder, Riskind & Taylor)	n/a	267.17		low	All	2/3 surrounded by private minerals, 1/3 surrounded by private lands, 1/3 surrounded by state land, 1/3 surrounded by FS lands, no road access; convey	050
T08N R85W	State Land Board	n/a	7.51		Moderate Moderate	Gold, aggregate	Surrounded by private minerals and no federal surface, no road access, sliver; convey	051
T07N R88W	State Land Board	Warrick Pastures	40.00	O&G	low	All	¾ surrounded by non federal minerals and state surface, no road access; convey	052
T07N R88W	Nottingham	Nottingham	40.00	O&G	low	All	Surrounded by federal minerals and private	054

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
							surface, no road access; retain	
T07N R88W	Nottingham	Pitney	35.12	O&G	low	All	¾ surrounded by federal minerals and private surface, no road access; convey	055
T07N R88W	Nottingham	Nottingham	40.00	O&G	low moderate	O&G coal	Surrounded by federal minerals and private surface, no road access; retain	056
T07N R88W	Nottingham	Nottingham	40.00	O&G	low moderate	O&G coal	Surrounded by federal minerals and private surface, county road access 1/10 mile away; retain	057
T07N R87W	Smith Rancho/Waltrip	Smith Rancho/Waltrip	596.97	O&G	low moderate	O&G coal	3/5 surrounded by federal minerals, and completely surrounded by private surface, private road access; retain	058
T07N R86-87W	Waltrip	Waltrip	40.03	O&G	low moderate	O&G geothermal	Surrounded by private minerals and private surface, county road access; convey	059
T07N R87W	Waltrip	Waltrip	62.71	O&G	low moderate	O&G geothermal	4/5 surrounded by federal minerals and completely	060

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							surrounded by private surface, no road access; retain	
T07N R87W	Smith Rancho	Smith Rancho	160.00	O&G	low moderate	O&G Meta-shale	Surrounded by federal minerals and completely by private surface, no road access; retain	061
T07N R87W	Waltrip	Waltrip	170.76	O&G	High Moderate Moderate	O&G, coal, geothermal	Located within Wolf Mountain oil field, 4/5 surrounded by federal minerals, completely surrounded by private land, 1/10 mile from county road 52; retain	062
T07N R87W	Waltrip	Waltrip	39.27	O&G	low	All	3/4 Surrounded by federal minerals (coal only) and private surface and 1/4 by state surface, 2 track access; convey	063
T07N R87W	Waltrip	Waltrip	40.00		moderate	coal	1/4 Surrounded by federal minerals and completely by private surface, no road access; convey	064
T07N R86W	Smith Rancho	Smith Rancho	40.30		low	All	Surrounded by private minerals and private surface, no road access; convey	065

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T07N R86W	Smith Rancho	Smith Rancho	186.18	O&G	low	All	1/3 Surrounded by federal minerals and completely by private surface, private road access; convey	066
T07N R86W	Waltrip	Waltrip	7.48		moderate	geothermal	½ Surrounded by federal minerals and completely by private surface, no road access; convey	067
T07N R86W	Sherrod	n/a	8.69		low	All	Surrounded by private minerals and private surface; sliver; county road 46 access; convey	068
T07N R86W	Waltrip	Waltrip	972.65		moderate	coal	1/3 Surrounded by federal minerals and completely by private surface, no road access; convey	069
T07N R86W	Waltrip	Waltrip	6.55		moderate	geothermal	½ Surrounded by federal minerals and completely by private surface, no road access; convey	070
T07N R86W	Utterback	Utterback	120.00		low	All	3/5 Surrounded by federal minerals and completely by private surface, private road access; convey	071

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T06N R89W	Frentress		41.86	O&G	low moderate	O&G coal	Surrounded by federal minerals and by private surface, no road access; retain	073
T06N R86W	State Land Board	Camilletti	40.00		moderate	coal	Surrounded by non federal minerals, $\frac{3}{4}$ state surface, $\frac{1}{4}$ by private surface, no road access; convey	076
T06N R86W	Iacovetto	Iacovetto	120.00	O&G	low moderate	O&G coal	$\frac{4}{5}$ Surrounded by federal minerals and by private surface, $\frac{1}{5}$ bordered by state land, no road access; retain	077
T06N R84W	Solo		40.00		low	All	$\frac{3}{4}$ Surrounded by private minerals and by private surface, $\frac{1}{4}$ bordered FS land, private road access; convey	078
T05N R87-88W	Ricks	Valora	160.00	O&G	low high	O&G coal	$\frac{7}{8}$ Surrounded by federal minerals and completely by private surface, no road access, road $\frac{1}{8}$ mile to east; retain	080
T05N R88W	Ricks	Ricks	40.00	COAL	high	coal	$\frac{3}{4}$ Surrounded by federal minerals, completely	081

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							surrounded by private land, scheduled to be mined; retain	
T04-05N R87-88W	Cross Mountain	Cross Mountain	202.84		moderate	O&G	1/5 surrounded by federal minerals, surrounded by private lands and state land, 2 track access; convey	082
T05N R87W	J. Maneotis	Maneotis	40.00	O&G	Low moderate	O&G coal	¼ surrounded by federal minerals, completely surrounded by private surface, no road access; convey	082a
T05N R87W	Cross Mountain	Cross Mountain	20.00	O&G COAL	Low moderate	O&G coal	2/3 surrounded by federal minerals, completely surrounded by private surface, no road access; retain	083a
T05N R87W	Patrick	Valora	160.00	O&G COAL	low High	O&G coal	3/4 surrounded by federal minerals, completely surrounded by private surface, scheduled to be mined; retain	084
T05N R87W	Ricks	Valora	40.00	O&G	low Moderate	O&G coal	surrounded by federal minerals, completely surrounded by private surface, road access;	085

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							retain	
T05N R87W	Montieth	Cross Mountain	80.00	O&G	moderate	Coal, O&G	surrounded by federal minerals, 4/5 surrounded by private surface, 1/5 by state surface, road access; retain	088
T05N R85W	Ludlow		9.47		Moderate	coal	4/5 Surrounded by federal minerals and completely by private surface, no road access; retain	089
T05N R85W	Roundtree		26.06		low	All	Surrounded by private minerals and by private surface, county road 41 access; convey	090
T04N R89W	Wyman, L	Tuttle/Wyman L.	160.00	O&G	low	All	1/3 Surrounded by federal minerals and completely by private surface, private road access; convey	091
T04N R88W	Cross Mountain	Cross Mountain	200.00		moderate	coal	4/5 Surrounded by federal minerals and completely by private surface, no road access; retain	093
T04N R88W	Cross Mountain	Cross Mountain	480.00		moderate	coal	7/8 Surrounded by	094

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							federal minerals and completely by private surface, no road access; retain	
T04N R88W	Cross Mountain	Cross Mountain	40.00		low	All	Surrounded by private minerals and by private surface, no road access; convey	095
T04N R88W	Cross Mountain	Cross Mountain	40.00		low	All	Surrounded by private minerals and by private surface, no road access; convey	096
T04N R88W	Cross Mountain	Cross Mountain	440.00		low	All	4/5 Surrounded by private minerals and completely by private surface, no road access; convey	097
T04N R88W	Cross Mountain	Cross Mountain	200.00		low	All	4/5 Surrounded by federal minerals and by private surface, 1/5 bordered by FS surface, no road access; convey	098
T04N R87W	Cross Mountain	Cross Mountain	40.00		low	All	Surrounded by private minerals and by private surface, no road access; convey	099

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T04N R87W	Cross Mountain/Hunter	Cross Mountain/Hunter	1040.00	O&G	low high	O&G coal	3/4 surrounded by federal minerals, completely surrounded by private surface, road access; retain	101
T04N R86W	Hunter	Hunter	46.46		moderate	coal	Completely surrounded by federal minerals, completely surrounded by private surface, road 1/8 mile to SE; retain	102
T04N R86W	Hunter	Hunter	40.00	O&G	low moderate	O&G coal	Completely surrounded by federal minerals, completely surrounded by private surface, road access; retain	104
T04N R86W	Brusca	Knott	40.00	O&G	low	All	Completely surrounded by federal minerals, completely surrounded by private surface, road access; retain	104a
T04N R86W	Boehm		40.00	O&G	low	All	Completely surrounded by federal minerals, completely surrounded by private surface, road access; retain	104b
T04N R86W	Boehm		40.00	O&G	low	All	Completely surrounded by federal minerals,	104c

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							completely surrounded by private surface, road access; retain	
T04N R86W	Monroe		40.00	COAL	moderate	coal	Completely surrounded by federal minerals, completely surrounded by private surface, road access; retain	104d
T04N R85W	Jones	n/a	80.69		low	All	1/5 Surrounded by federal minerals and completely by private surface, no road access; convey	105
T04N R85W	A. Maneotis	Maneotis	39.97		low	All	completely Surrounded by private minerals and completely by private surface, private road access; convey	105a
T04N R85W	A. Maneotis	Maneotis	82.33		low	All	completely Surrounded by private minerals and completely by private surface, no road access; convey	105b
T04N R85W	A. Maneotis	Maneotis	41.40	coal	low	All	completely Surrounded by private minerals and completely by private surface, hwy 131 access;	105c

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							convey	
T03N R88W	Cosby	n/a	40.00		moderate	aggregate	1/2 Surrounded by federal minerals and completely by private surface, no road access; convey	106
T03N R88W	Cross Mountain	Cross Mountain	320.95		low	All	Completely surrounded by federal minerals, 4/5 surrounded by private land, 1/5 by FS land, 2 track access; retain	107
T03N R88W	Cosby	n/a	40.00		low	All	Completely surrounded by federal minerals, and private land, no road access; retain	108
T03N R88W	Cosby	n/a	425.02		low	All	4/5 surrounded by federal minerals, 4/5 surrounded by private land, 1/5 by FS land, 2 track access; retain	109
T03N R88W	Omlid	Omlid	40.00		low	All	1/4 Surrounded by federal minerals and completely by private surface, county road access; convey	110
T03N R88W	Omlid	Omlid	40.00		low	All	completely Surrounded	111

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
							by private minerals and completely by private surface, county road access; convey	
T03N R88W	Signs	Signs	40.00		low	All	1/4 Surrounded by federal minerals and completely by private surface, county road access; convey	112
T03N R88W	Cosby	n/a	40.00		low	All	completely Surrounded by federal minerals and completely by private surface, no road access; retain	113
T03N R87W	Hunter	Maneotis	40.00		low	All	Completely surrounded by federal minerals, $\frac{3}{4}$ private surface, and $\frac{1}{4}$ FS land, just off county road, retain	114
T03N R86W	J. Maneotis	Maneotis	83.83		moderate	coal	completely Surrounded by federal minerals and completely by private surface, just off county road; retain	114b
T03N R86W	Prairie Mountain		243.88	O&G	low	All	$\frac{3}{4}$ surrounded by federal minerals, completely surrounded by private	114c

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							land, 2 track access; retain	
T03N R85-86W	J. Maneotis	Maneotis		O&G			Same as above;	114c
T03N R85-86W	Wertenteil	Maneotis	229.79	O&G	low	All	1/2 surrounded by federal minerals, completely surrounded by private land, 2 track access; retain	115
T03N R86W	J. Maneotis	Maneotis	10.58	O&G	low	All	1/2 surrounded by federal minerals, completely by private land, no road access; convey	115a
T03N R86W	Pinnacle Peak	Maneotis	136.38	O&G	low moderate	O&G coal	completely Surrounded by federal minerals and completely by private surface, no road access; retain	116
T03N R86W	Pinnacle Peak	Pinnacle Peak	10.48		low	All	completely Surrounded by federal minerals and completely by private surface, county road access; retain	117
T03N R86W	Pinnacle Peak	Pinnacle Peak	20.98		low	All	9/10 surrounded by federal minerals, 3/5 surrounded by private surface, and 2/5 by FS	118

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
							land, county road access; retain	
T03N R86W	Viele		31.26		low	All	completely Surrounded by federal minerals and completely by private surface, no road access; retain	118a
T03N R86W	Pinnacle Peak	Pinnacle Peak	83.33		low	All	completely Surrounded by federal minerals and completely by private surface, county road access; retain	119
T03N R85W	Crawford	Maneotis	43.21		low	All	½ surrounded by federal minerals, completely surrounded by private land, no road access; convey	120
T03N R85W	Craig	n/a	41.33		low	All	completely Surrounded by private minerals and completely by private surface, no road access, just west of Phippsburg; convey	121
T03N R85W	Wertenteil	Wertenteil	83.51		low	All	completely Surrounded by private minerals and completely by private surface, road access;	121a

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
							convey	
T02N R86W	Broken Bone Ranch	Broken Bone Ranch	7.50		low	All	completely Surrounded by federal minerals and completely by private surface, no road access; retain	123
T02N R86W	Broken Bone Ranch	Broken Bone Ranch	10.00		low	All	completely Surrounded by federal minerals and 4/5 by private surface, 1/5 FS land, no road access; retain	124
T02N R86W	Broken Bone Ranch	Broken Bone Ranch	40.00		moderate	aggregate	Completely surrounded by federal minerals, ½ surrounded by FS land and ½ by private surface, Close to road access; retain	125
T02N R86W	Broken Bone Ranch	Broken Bone Ranch	10.00		moderate	aggregate	completely Surrounded by federal minerals and completely by private surface, private road access; retain	126
T02N R85W	Broken Bone Ranch	Broken Bone Ranch	101.10		low	All	1/3 surrounded by federal minerals, completely surrounded by private surface, private road access, convey	128

TOWNSHIP	PARTICIPANT	PERMITTEE	ACRES	LEASE	MINERAL POTENTIAL	COMMODITY	MINERAL MANAGEMENT EFFICIENCY /ACCESS/ RECOMMENDATION	PARCEL #
T02N R85W	R & T Land & Cattle	R & T Land & Cattle	80.00		moderate	aggregate	Completely surrounded by non-federal minerals, $\frac{3}{4}$ surrounded by private surface and $\frac{1}{4}$ by state surface, no road access, convey	129
T02N R85W	Brooks	Brooks	80.00		moderate	aggregate	Completely surrounded by private minerals and private surface, just off hwy 131; convey	130
T01N R85W	Horowitz	Horowitz	153.27		low	All	$\frac{3}{4}$ surrounded by federal minerals and private surface, $\frac{1}{4}$ FS land, private road access; convey	131